

MH-5081

J1059 U.S. PTO  
09/994540  
11/27/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Cao, et al.

**Title: Trellis Based Maximum Likelihood Signal Estimation Method and Apparatus for  
Blind Joint Channel Estimation and Signal Detection**

EXPRESS MAIL mailing label number  
EV 004299545 US

Date of Deposit: *November 27, 2001*

I hereby certify that this correspondence is being deposited with the United States Postal Service as EXPRESS MAIL in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231, on:

Andrew J. Curtin  
Name of Depositor

*[Signature]*  
Signature

\* \* \*

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, DC 20231

Pursuant to 37 C.F.R. §1.56(a), Applicant hereby cites the following documents (copies enclosed) listed on the attached copy of Form PTO-1449.

This Information Disclosure Statement is filed in accordance with the paragraph of 37 CFR §1.97 checked below:

X 1.97(b) This Information Disclosure Statement is filed:

- (1) Within three months of the filing date of a national application; OR
- (2) Within three months of the date of entry of the national stage of an international application; OR
- (3) Before the mailing of a first Office Action on the merits.

No fee or certification is required.

   1.97(c) This Information Disclosure Statement is filed after the period specified in paragraph (b) above, but before the mailing date of either:

- (1) A Final Action under 37 CFR 1.113; OR
- (2) A Notice of Allowance under 37 CFR 1.311;

MH-5081

AND is accompanied by either:

(check one)

\_\_\_\_\_ the Certification under 37 CFR  
1.97(e) as set out below; OR

\_\_\_\_\_ the fee of \$240.00 under 37 CFR  
1.17(p).

\_\_\_ 1.97(d) This Information Disclosure Statement is filed  
after the mailing date of either:

(1) a Final action under 37 CFR 1.113; OR

(2) A Notice of Allowance under 37 CFR 1.311;

BUT before payment of the Issue Fee, AND is accompanied  
by:

(1) the Certification under 37 CFR 1.97(e) as  
set out below; AND

(2) Petition is hereby made under 37 CFR  
1.97(d) for consideration of this  
Information Disclosure Statement; AND,

(3) Authorization to charge the petition fee  
of \$130.00 as set out in 37 CFR 1.17(i).

If this Information Disclosure Statement is being filed  
under 37 CFR 1.97(c) or 1.97(d), the undersigned Attorney hereby  
certifies that:

— each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of this Statement;

or

— no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, or to the knowledge of the undersigned Attorney after making reasonable enquiry, was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing date of this Statement.

MH-5081

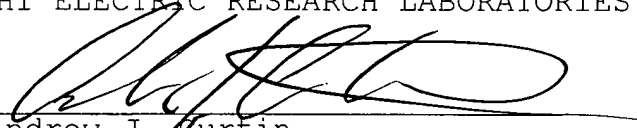
Authorization is hereby given to charge the indicated fee(s)  
to Deposit Account No. 50-0749.

Please charge any additional fee due for this paper to  
Deposit Account No. 50-0749.

Respectfully submitted,

MITSUBISHI ELECTRIC RESEARCH LABORATORIES

By:

  
Andrew J. Curtin  
Reg. No. 48,485  
Attorney for Assignee

Mitsubishi Electric Research Laboratories, Inc.  
201 Broadway  
Cambridge, Massachusetts 02139  
(617) 621-7573

Customer No. 022199

Enclosures

~

Form PTO-1449  
(modified 2/91)

U.S. DEPT OF COMMERCE  
Patent and Trademark Office

Attorney Docket Number:  
MH-5081

Serial Number:

**INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

Applicant:

Cao, et al.

Filing date:

Herewith

Group art area:

J1059 U.S. PTO  
09/994540

11/27/01

**U.S. PATENT DOCUMENTS**

Examiner Initial	Patent number	Date	Name	Class	Subclass	Filing date if appropriate
	6,134,277	10/17/2000	Shah	375	341	
	5,432,818	7/11/1995	Lou	375	324	
	5,325,402	6/28/1994	Ushirokawa	375	94	
	5,236,033	11/16/1993	Seshadri	371	43	

**FOREIGN PATENT DOCUMENTS**

	Document number	Date	Country	Class	Subclass	Translation	
						YES	NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


Examiner:

Date Considered:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP .609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.